

Abstract

A hand-held assay device measuring chemiluminescence generated by as ample of ATP or other entity capable of chemically reacting to generate photoluminescence includes a photodiode detecting light which is emitted from the sample to produce a sample signal, another photodiode generating a reference signal in response to environmental changes, switched integrators amplifying the sensor signal over a controllable integration time to detect an output signal indicative of the presence of the sample.